

RIDHIMA GARG

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Address-Dehradun ,Uttarakhand, India

Programming Languages : Python , C, Java, Html ,CSS

Database: SQL , MongoDB

PROFESSIONAL SUMMARY

I am a second year B.Tech Computer Science (Data Science) student with expertise in machine learning, NLP, and problem-solving. I have hands-on experience developing ML and text classification projects using Python, scikit-learn, and NLP libraries such as spaCy and NLTK. Skilled at analyzing data, identifying patterns, and translating insights into practical solutions, I continuously enhance my coding and analytical abilities through projects, Kaggle datasets, and competitive problem-solving. I am highly motivated to contribute to real-world AI/ML applications and gain impactful industry experience.

EDUCATION

B-Tech in Computer Science (Data Science)

University of Petroleum and Energy Studies (UPES)

Batch -(2024-2028)

Relevant Courses: Linux, Operating Systems , Database Management Systems (Mongo-db & SQL), Machine Learning and Artificial Intelligence, Data Structures and Algorithm(arrays, trees, graphs) , Design and analysis of Algorithm

High School Diploma

St. Joseph's Academy - Dehradun

Batch -(2024)

Relevant Courses: Physics, Mathematics, English , Chemistry

Class 12th: 96%

Class 10th: 97.2%

WORK EXPERIENCE / INTERSHIPS

Machine Learning Project – Investor Risk Prediction (Personal Project)

Using -Python , sklearn , Numpy, Pandas , Streamlit

- Designed and trained a machine learning model (Random Forest Regressor) to predict investor risk tolerance using data such as age, income, education, occupation, and net worth.
- Applied data preprocessing, feature encoding, and cross-validation techniques, achieving a model R^2 score of 0.73, showcasing solid understanding of supervised learning workflows.
- Built an interactive Streamlit web application that collects user inputs and displays real-time risk predictions, portfolio allocation, and risk category classification.
- Visualized model outputs and insights using Matplotlib, including feature importance analysis and comparison between user risk preference and model prediction.

Fake Job Classifier/Prediction (Personal Project)

Using -Python , Numpy , Pandas, spaCy, Sklearn, Streamlit

- Built a machine learning model using TF-IDF text features and Logistic Regression , Linear Support Vector Machine (Linear SVM) to identify whether a job posting is genuine or potentially fake based on its description. Compared model performance and selected Linear SVM as the final model after it showed better accuracy and decision boundaries than Logistic Regression.
- Performed feature engineering and exploratory Data Analysis by incorporating structured risk indicators such as missing salary details, company information, job requirements, benefits, department, and employment type to improve real-world fraud detection accuracy(Performance metrics- precision, recall, confusion matrix, GridsearchCV)
- Designed an end-to-end text classification pipeline by combining sparse text vectors with structured features using SciPy hstack, enabling the model to make robust predictions on unseen job postings.

ADDITIONAL EXPERIENCE

College Sports Club

- Actively represented my college sports team, working closely with teammates and coaches to plan practice sessions and perform well in inter-college matches.
- Developed strong communication, teamwork, and time management skills by balancing academics with regular training and team responsibilities.

School Sports Captain

- Served as School Sports Captain, leading and coordinating students during tournaments, practice sessions, and school-level sports events..
- Improved leadership, decision-making, and public communication skills by motivating team members and representing the school during competitions.

SKILLS

Certification: Python for data science(udemy), Introduction to SQL(simplilearn), Introduction to MongoDB(simplilearn)

Developer Tools:MySQL , PyCharm , MongoDB(Atlas) , GitHub

Libraries: NumPy, Pandas , Scikit-learn , spaCy, Keras , NLTK, Matplotlib, Seaborn

Problem Solving :Solved 100+ Leetcode problems and worked on kaggle datasets